AMENDMENTS TO THE SPECIFICATION

Please replace the first paragraph on page 1 of the specification with the following new paragraph:

This application is a continuation of and claims the benefit of U.S. Application No. 09/559,671, filed April 27, 2000, (now U.S. Patent No. 6,613,514), which is a continuation of U.S. Application No. 08/769,062, filed December 18, 1996 (now U.S. Patent No. 6,335,160), the disclosures of which are incorporated by reference herein in their entireties for all purposes.

Please replace the text on page 83, line 8 through page 86, line 5, with the following:

1. AACCCTCCAG TTCCGAACCC CATATGATGA TCACCCTGCG TAAACTGCCG (SEQ ID NO:1)

2. AACCCTCCAG TTCCGAACCC CATATGAAAA AAACCGCT (SEQ ID NO:2)

3. AACCCTCCAG TTCCGAACCC ATATACATAT GCGTGCTAAA (SEQ ID NO:3)

4. AACCCTCCAG TTCCGAACCC CATATGAAAT ACCTGCTGCC GACC (SEQ ID NO:4)

5. AACCCTCCAG TTCCGAACCC GATATACATA TGAAACAGTC (SEQ ID NO:5)

6. TGGTGTTATG TCTGCTCAGG CDATGGCDGT DGAYTTYCAY CTGGTTCCGG TTGAAGAGGA (SEQ ID NO:6)

7. GGCTGGTTTC GCTACCGTTG CDCARGCDGC DCCDAARGAY CTGGTTCCGG TTGAAGAGGA (SEQ ID NO:7)

8. CACCCCGATC GCTATCTCTT CYTTYGCDTC YACYGGYTCY CTGGTTCCGG

TTGAAGAGGA (SEQ ID NO:8)

9. GCTGCTGGCT GCTCAGCCGG CDATGGCDAT GGAYATYGGY CTGGTTCCGG

TTGAAGAGGA (SEQ ID NO:9)

10. TGCCGCTGCT GTTCACCCCG GTDACYAARG CDGCDCARGT DCTGGTTCCG

GTTGAAGAGG A (SEQ ID NO:10)

11. CCCGGCTTTC TGGAACCGTC ARGCDGCDCA RGCDCTGGAC

GTTGCTAAAA AACTGCAGCC (SEQ ID NO:11)

12. ACGTTATCCT GTTCCTGGGT GAYGGYATGG GYGTDCCDAC CGTTACCGCT

ACCCGTATCC (SEQ ID NO:12)

13. AAACTGGGTC CGGAAACCCC DCTGGCDATG GAYCARTTYC

CGTACGTTGC TCTGTCTAAA (SEQ ID NO:13)

14. GGTTCCGGAC TCTGCTGGTA CYGCDACYGC DTAYCTGTGC

GGTGTTAAAG GTAACTACCG (SEQ ID NO:14)

15. CTGCTCGTTA CAACCAGTGC AARACYACYC GYGGYAAYGA

AGTTACCTCT GTTATGAACC (SEQ ID NO:15)

16. TCTGTTGGTG TTGTTACCAC YACYCGYGTD CARCAYGCDT CTCCGGCTGG

TGCTTACGCT (SEQ ID NO:16)

17. GTACTCTGAC GCTGACCTGC CDGCDGAYGC DCARATGAAC

GGTTGCCAGG ACATCGCTGC (SEQ ID NO:17)

18. ACATCGACGT TATCCTGGGT GGYGGYCGYA ARTAYATGTT CCCGGTTGGT

ACCCCGGACC (SEQ ID NO:18)

19. TCTGTTAACG GTGTTCGTAA RCGYAARCAR AAYCTGGTDC AGGCTTGGCA

GGCTAAACAC (SEQ ID NO:19)

20. GAACCGTACC GCTCTGCTGC ARGCDGCDGA YGAYTCYTCT

GTTACCCACC TGATGGGTCT (SEQ ID NO:20)

21. AATACAACGT TCAGCAGGAC CAYACYAARG AYCCDACYCT

GCAGGAAATG ACCGAAGTTG (SEQ ID NO:21)

22. AACCCGCGTG GTTTCTACCT GTTYGTDGAR GGYGGYCGYA

TCGACCACGG TCACCACGAC (SEQ ID NO:22)

23. GACCGAAGCT GGTATGTTCG AYAAYGCDAT YGCDAARGCT

AACGAACTGA CCTCTGAACT (SEQ ID NO:23)

24. CCGCTGACCA CTCTCACGTT TTYTCYTTYG GYGGYTAYAC CCTGCGTGGT

ACCTCTATCT (SEQ ID NO:24)

25. GCTCTGGACT CTAAATCTTA YACYTCYATY CTGTAYGGYA

ACGGTCCGGG TTACGCTCTG (SEQ ID NO:25)

26. CGTTAACGAC TCTACCTCTG ARGAYCCDTC YTAYCARCAG CAGGCTGCTG

TTCCGCAGGC (SEQ ID NO:26)

27. AAGACGTTGC TGTTTTCGCT CGYGGYCCDC ARGCDCAYCT GGTTCACGGT

GTTGAAGAAG (SEQ ID NO:27)

28. ATGGCTTTCG CTGGTTGCGT DGARCCDTAY ACYGAYTGYA

ACCTGCCGGC TCCGACCACC (SEQ ID NO:28)

29. TGCTCACCTG GCTGCTTMAC CDCCDCCDCT GGCDCTGCTG GCTGGTGCTA

TGCTGCTCCT C (SEQ ID NO:29)

30. TTCCGCCTCT AGAGAATTCT TARTACAGRG THGGHGCCAG

GAGGAGCAGC ATAGCACCAG CC (SEQ ID NO:30)

31. AAGCAGCCAG GTGAGCAGCG TCHGGRATRG ARGTHGCGGT

GGTCGGAGCC GGCAGGTT (SEQ ID NO:31)

32. CGCAACCAGC GAAAGCCATG ATRTGHGCHA CRAARGTYTC

TTCTTCAACA CCGTGAACCA (SEQ ID NO:32)

33. GCGAAAACAG CAACGTCTTC RCCRCCRTGR GTYTCRGAHG

CCTGCOGAAC AGCAGCCTGC (SEQ ID NO:33)

34. AGAGGTAGAG TCGTTAACGT CHGGRCGRGA RCCRCCRCCC

AGAGCGTAAC CCGGACCGTT (SEQ ID NO:34)

35. AAGATTTAGA GTCCAGAGCT TTRGAMGGHG CCAGRCCRAA

GATAGAGGTA CCACGCAGGG (SEQ ID NO:35)

36. ACGTGAGAGT GGTCAGCGGT HACCAGRATC AGRGTRTCCA

GTTCAGAGGT CAGTTCGTTA (SEQ ID NO:36)

37. GAACATACCA GCTTCGGTCA GHGCCATRTA HGCYTTRTCG TCGTGGTGAC

CGTGGTCGAT (SEQ ID NO:37)

38. GGTAGAAACC ACGCGGGTTA CGRGAHACHA ORCGCAGHGC

AACTTCGGTC ATTTCCTGCA (SEQ ID NO:38)

39. TCCTGCTGAA CGTTGTATTT CATRTCHGCH GGYTCRAACA GACCCATCAG

GTGGGTAACA (SEQ ID NO:39)

40. CAGCAGAGCG GTACGGTTCC AHACRTAYTG HGCRCCYTGG

TGTTTAGCCT GCCAAGCCTG (SEQ ID NO:40)

41. TACGAACACC GTTAACAGAA GCRTCRTCHG GRTAYTCHGG

GTCCGGGGTA CCAACCGGGA (SEQ ID NO:41)

42. CCCAGGATAA CGTCGATGTC CATRTTRTTH ACCAGYTGHG CAGCGATGTC

CTGGCAACCG (SEQ ID NO:42)

43. CAGGTCAGCG TCAGAGTACC ARTTRCGRTT HACRGTRTGA

GCGTAAGCAC CAGCCGGAGA (SEQ ID NO:43)

44. TGGTAACAAC ACCAACAGAT TTRCCHGCYT TYTTHGCRCG GTTCATAACA

GAGGTAACTT (SEQ ID NO:44)

45. CACTGGTTGT AACGAGCAGC HGCRGAHACR CCRATRGTRC

GGTAGTTACC TTTAACACCG (SEQ ID NO:45)

46. ACCAGCAGAG TCCGGAACCT GRCGRTCHAC RTTRTARGTT

TTAGACAGAG CAACGTACGG (SEQ ID NO:46)

47. GGGTTTCCGG ACCCAGTTTA CCRTTCATYT GRCCYTTCAG GATACGGGTA

GCGGTAACGG (SEQ ID NO:47)

48. CCCAGGAACA GGATAACGTT YTTHGCHGCR GTYTGRATHG

GCTGCAGTTT TTTAGCAACG (SEQ ID NO:48)

49. ACGGTTCCAG AAAGCCGGGT CTTCCTCTTC AACCGGAACC AG (SEQ ID

NO:49)

50. CCTGAGCAGA CATAACACCA GCHGCHACHG CHACHGCCAG

CGGCAGTTTA CGCAGGGTGA (SEQ ID NO:50)

51. ACCGGGGTGA ACAGCAGCGG CAGCAGHGCC AGHGCRATRG

TRGACTGTTT CATATGTATA TC (SEQ ID NO:51)

52. GCCGGCTGAG CAGCCAGCAG CAGCAGRCCH GCHGCHGCGG

TCGGCAGCAG GTAGTTTCA (SEQ ID NO:52)

53. AAGAGATAGC GATCGGGGTG GTCAGHACRA TRCCCAGCAG

TTTAGCACGC ATATCTATAT (SEQ ID NO:53)

54. CAACGGTAGC GAAACCAGCC AGHGCHACHG CRATHGCRAT

AGCGGTTTTT TTCATATG (SEQ ID NO:54)

55 AGAATTCTCT AGAGGCGGAA ACTCTCCAAC TCCCAGGTT (SEQ ID NO:55)

56. TGAGAGGTTG AGGGTCCAAT TGGGAGGTCA AGGCTTGGG (SEQ ID NO:56)

Please replace the text on page 86, line 24 to page 87, line 5 with the following:

Genomic antibody expression shuttle vectors similar to those described by Gascoigne

et al. (Proc. Natl. Acad. Sci. (U.S.A.) 84:2936-2940 (1987)) are constructed such that

libraries of mutant V region exons can be readily cloned into the shuttle vectors. The kappa

construct is cloned onto a plasmid encoding puromycin resistance and the heavy chain is

cloned onto a neomycin resistance encoding vector. The cDNA derived variable region

sequences encoding the mature and germline heavy and light chain V regions are

reconfigured by PCR mutagenesis into genomic exons flanked by Sfi I sites with

complementary Sfi I sites placed at the appropriate locations in the genomic shuttle vectors.

The oligonucleotides used to create the intronic Sfi I sites flanking the VDJ exon are:

5' Sfi I: 5'-TTCCATTTCA TACATGGCCG AAGGGGCCGT

GCCATGAGGA TTTT-3' (SEQ ID NO:100);

3' Sfi I: 5'-TTCTAAATG CATGTTGGCC TCCTTGGCCG

GATTCTGAGC CTTCAGGACC A-3' <u>(SEQ ID NO:100)</u>.